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Eco-Tech LABORATORIES LTD.

ENVIRONMENTAL TESTING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ASSAYING

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September 30, 1983

CONTRACT SERIAL NO. OSQ83-00063

REQUISITION NO. 23440-3-9101-1

TITLE: RECOMMENDED VALUE FOR REFERENCE URANIUM TAILINGS

CONTRACTOR: ECO-TECH LABORATORIES LTD.

Energy, Mines & Resources Canada
Research and Technology
555 Booth Street
OTTAWA, Ontario
K1A 0G1

Attention: Dr. Henry F. Steger, Coordinator, CCRMP

Dear Sir:

Following are our test results for UTS 1, 2, 3, 4 samples. We were unable to complete the barium determinations on these samples due to high spectral interference using our test procedures.

SOLUBLE SULFATE ($\%SO_4$)

UTS	Bottle No.	Sample Wt. (grams)	Sub Sample No. 1	2	3	4	5
1	723	2.000	2.71	2.70	2.69	2.69	2.71
2	887	5.000	0.892	0.901	0.900	0.901	0.896
3	960	10.000	0.013	0.012	0.014	0.014	0.013
4	916	1.000	5.17	5.18	5.16	5.17	5.19

TOTAL SULFUR (%S)

UTS	Bottle No.	Sample Wt. (grams)	Sub Sample No. 1	2	3	4	5
4	916	1.000	1.88	1.86	1.84	1.87	1.88

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2pp

TEST PROCEDURES

Soluble Sulfates - UTS 1, 2, 3, 4

All samples were boiled 1.0 hour in 10% HCl.
Iron reduction with Hydroxylamine Hydrochloride.
Finish - UTS 1, 2, 4: Gravimetric as barium sulfate
UTS 3: Turbidimetric as barium sulfate

Total Sulfate - UTS 4

Hydrochloric/Nitric acid dissolution, Bromine/Bromide oxidation.
Iron reduction with Hydroxylamine Hydrochloride.
Gravimetric finish as barium sulfate.

We wish to thank for selecting our laboratory to participate in this project. We look forward to being included in future reference material projects.

Sincerely,

ECO-TECH LABORATORIES LTD.

Frank J. Pezzotti, C.E.T.
Laboratory Manager

FJP/mil